

chain nodes :

1 2 10 11 12 13 14 16 17 18 19 20

ring nodes :

3 4 5 6 7 8

chain bonds :

1-2 2-4 3-10 8-11 11-13 12-13 12-16 13-14 16-17 17-19 18-19 19-20

ring bonds :

3-4 3-8 4-5 5-6 6-7 7-8

exact/norm bonds :

1-2 2-4 3-4 3-8 3-10 4-5 5-6 6-7 7-8 8-11 11-13 12-13 12-16 13-14 18-19
19-20

exact bonds :

16-17 17-19

isolated ring systems :

containing 3 :

G1:O,S

Match level :

1:Atom 2:CLASS 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 10:CLASS 11:CLASS
12:CLASS 13:CLASS 14:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

Patent Assignment Abstract of Title

Total Assignments: 1

Application #: 09973142 **Filing Dt:** 10/09/2001 **Patent #:** NONE **Issue Dt:**
PCT #: NONE **Publication #:** 20040063955 **Pub Dt:** 04/01/200

Inventors: Ronald J. Biediger, Qi Chen, E. Radford Decker, George W. Holland, Jamal M. Kassir, Wen Li, Robert V. Market, Ian L. Scott, Chengde Wu, Jian Li

Title: Carboxylic acid derivatives that inhibit the binding of integrins to their receptors

Assignment: 1

Reel/Frame: 012249/0414 **Received:** 10/18/2001 **Recorded:** 10/09/2001 **Mailed:** 12/20/2001 **Pages:** 2

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: BIEDIGER, RONALD J.

Exec Dt: 10/02/2001

CHEN, QI

Exec Dt: 10/02/2001

DECKER, RADFORD E.

Exec Dt: 10/02/2001

HOLLAND, GEORGE W.

Exec Dt: 10/02/2001

KASSIR, JAMAL M.

Exec Dt: 10/02/2001

LI, WEN

Exec Dt: 10/02/2001

MARKET, ROBERT V.

Exec Dt: 10/02/2001

SCOTT, IAN L.

Exec Dt: 10/04/2001

WU, CHENGDE

Exec Dt: 10/02/2001

LI, JIAN

Exec Dt: 10/02/2001

Assignee: TEXAS BIOTECHNOLOGY CORPORATION

7000 FANNIN, SUITE 1920

HOUSTON, TEXAS 77030

Correspondent: ROCKEY, MILNAMOW & KATZ, LTD.

MARTIN L. KATZ

TWO PRUDENTIAL PLAZA

180 NORTH STETSON AVENUE, SUITE 4700

CHICAGO, IL 60601

Search Results as of: 4/11/2004 5:41:04 P.M.

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NEWS 4 DEC 08 CABA reloaded with left truncation
NEWS 5 DEC 08 IMS file names changed
NEWS 6 DEC 17 DGENE: Two new display fields added
NEWS 7 DEC 18 BIOTECHNO no longer updated
NEWS 8 DEC 19 CROPU no longer updated; subscriber discount no longer available
NEWS 9 DEC 22 ABI-INFORM now available on STN
NEWS 10 JAN 27 Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 11 JAN 27 A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
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NEWS 14 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 15 MAR 03 FRANCEPAT now available on STN
NEWS 16 MAR 29 Pharmaceutical Substances (PS) now available on STN
NEWS 17 MAR 29 WPIFV now available on STN
NEWS 18 MAR 29 No connect hour charges in WPIFV until May 1, 2004
NEWS 19 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
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=> file reg

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STRUCTURE FILE UPDATES: 9 APR 2004 HIGHEST RN 673855-15-7
 DICTIONARY FILE UPDATES: 9 APR 2004 HIGHEST RN 673855-15-7

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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR

=> s l1

SAMPLE SEARCH INITIATED 17:38:06 FILE 'REGISTRY'
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100.0% PROCESSED 45 ITERATIONS 14 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 498 TO 1302
 PROJECTED ANSWERS: 56 TO 504

L2 14 SEA SSS SAM L1

=> s l1 full

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 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 FULL SEARCH INITIATED 17:38:09 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 1111 TO ITERATE

100.0% PROCESSED 1111 ITERATIONS 440 ANSWERS
 SEARCH TIME: 00.00.01

L3 440 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	157.10	157.31

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FILE COVERS 1907 - 11 Apr 2004 VOL 140 ISS 16
FILE LAST UPDATED: 9 Apr 2004 (20040409/ED)

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=> s 13

L4 2 L3

=> d 14, ibib abs fhitr, 1-2

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing
Text References

ACCESSION NUMBER: 2002:349146 HCAPLUS
DOCUMENT NUMBER: 136:369608
TITLE: Preparation of 3-(N'-oxodihydropyridinylureido)-3-phenylpropanoates as inhibitors of $\alpha 4\beta 1$ integrin binding
INVENTOR(S): Biediger, Ronald J.; Chen, Qi; Holland, George W.; Kassir, Jamal M.; Li, Wen; Market, Robert V.; Scott, Ian L.; Wu, Chengde; Decker, Radford E.; Li, Jian
PATENT ASSIGNEE(S): Texas Biotechnology Corporation, USA
SOURCE: Eur. Pat. Appl., 131 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

No Same app.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1203766	A2	20020508	EP 2001-125494	20011106
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004063955	A1	20040401	US 2001-973142	20011009
ZA 2001008777	A	20030124	ZA 2001-8777	20011024
PRIORITY APPLN. INFO.:			US 2000-707068	A 20001106
			US 2001-973142	A 20011009
			US 1999-132971P	P 19990507
			US 2000-565920	A2 20000505

OTHER SOURCE(S): MARPAT 136:369608
AB Title compds. were prepd. Thus, 2-ClC6H4CH2ZNH2 (Z = 4-ethyl-2-oxo-1,2-dihydropyridine-1,3-diyl) (prepn. given) was condensed with (S)-4-MeC6H4CH(NH2)CH2CO2Et and COCl2 to give, after sapon., (S)-2-ClC6H4CH2ZNHCONHCH(C6H4Me-4)CH2CO2H (Z as above). Data for biol. activity of title compds. were given.

IT 307520-20-3P

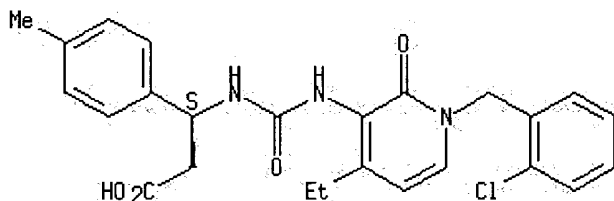
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3-(N'-oxodihydropyridinylureido)-3-phenylpropanoates as inhibitors of $\alpha_4\beta_1$ integrin binding)

RN 307520-20-3 HCAPLUS

CN Benzenepropanoic acid, β -[[[1-[(2-chlorophenyl)methyl]-4-ethyl-1,2-dihydro-2-oxo-3-pyridinyl]amino]carbonyl]amino]-4-methyl-, (β S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
-----------	-------------------

ACCESSION NUMBER: 2000:814302 HCAPLUS

DOCUMENT NUMBER: 133:362963

TITLE: Preparation of β -amino acid derivatives that inhibit the binding of integrins to their receptors

INVENTOR(S): Biediger, Ronald J.; Chen, Qi; Holland, George W.; Kassir, Jamal M.; Li, Wen; Market, Robert V.; Scott, Ian L.; Wu, Chengde

PATENT ASSIGNEE(S): Texas Biotechnology Corporation, USA

SOURCE: PCT Int. Appl., 113 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

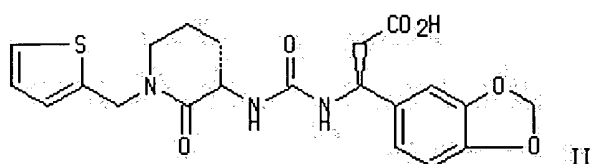
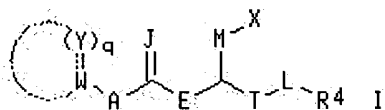
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000067746	A1	20001116	WO 2000-US12303	20000505
WO 2000067746	C2	20020829		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1176956	A1	20020206	EP 2000-937527	20000505
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
SI 20744	C	20020630	SI 2000-20021	20000505
BR 2000010293	A	20020716	BR 2000-10293	20000505
JP 2002544161	T2	20021224	JP 2000-616772	20000505
ZA 2001008774	A	20030124	ZA 2001-8774	20011024

Compiling AOR?

NO 2001005418 A 20011221 NO 2001-5418 20011106
 PRIORITY APPLN. INFO.: US 1999-132971P P 19990507
 WO 2000-US12303 W 20000505
 OTHER SOURCE(S): MARPAT 133:362963
 GI



AB Title compds. I [Y, at each occurrence, independently = CO, N, CR1, CR2R3, NR5, CH, O, or S; q = 3-10; A = O, S, CR16R17, NR6; E = CH2, O, S, NR7; J = O, S, NR8; M = CR9R10 or (CH2)0-3; T = CO or (CH2)0-3; L = O, NR11, S, (CH2)0-1; X = CO2B, PO3H2, SO3H, SO2NH2, SO2NHCOR12, OPO3H2, CONHCOR13, CONHSO2R14, tetrazolyl, hydroxyl, H; W = C, CR15, N; B, R1-17 = H, halo, hydroxyl, alkyl, alkoxy, aliph. acyl, CF3, nitro, cycloalkyl, alkylheteroaryl, sulfonyl, carboxyl, etc.] or their pharmaceutically acceptable salts were prepd. for inhibition of the binding of $\alpha 4\beta 1$ integrin to its receptors. Thus, II was prepd. and assayed ($IC_{50} = 0.2 \mu M$) for its ability to suppress binding using a 26-amino acid peptide contg. the CS-1 sequence of fibronectin with N-terminal cysteine coupled to maleimide activated ovalbumin.

IT 307520-20-3P

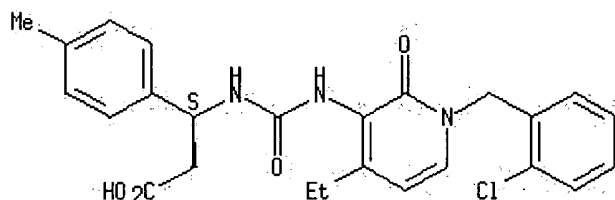
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of β -amino acid derivs. that inhibit the binding of integrins to their receptors)

RN 307520-20-3 HCAPLUS

CN Benzenepropanoic acid, β -[[[1-[(2-chlorophenyl)methyl]-4-ethyl-1,2-dihydro-2-oxo-3-pyridinyl]amino]carbonyl]amino]-4-methyl-, (βS)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 17:34:52 ON 11 APR 2004)

FILE 'REGISTRY' ENTERED AT 17:34:59 ON 11 APR 2004

L1 STRUCTURE UPLOADED
L2 14 S L1
L3 440 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 17:38:12 ON 11 APR 2004

L4 2 S L3

=> file caold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	23.67	180.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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CA SUBSCRIBER PRICE	-1.39	-1.39

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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SIGLE	- Grey Literature in Europe from 1976 - present
SOLIDSTATE	- Solid State and Superconductivity Abstracts from 1981
SOLIS	- German literature in social sciences 1945-present

SPECINFO - Spectral Database Information System
 STANDARDS - The International Standards Database
 STNGUIDE - Descriptive information about STN databases
 STNMAIL - STN Electronic Mail Service
 SWETSCAN - Swets Table of Contents from 1993 - present
 SYNTHLINE - Synthline Drug Synthesis Database 1984-present
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=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	181.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.39

FILE 'HCAPLUS' ENTERED AT 17:42:15 ON 11 APR 2004
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FILE COVERS 1907 - 11 Apr 2004 VOL 140 ISS 16
 FILE LAST UPDATED: 9 Apr 2004 (20040409/ED)

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=> s 119:8683/dn

L6 1 119:8683/DN

=> d 16, ibib abs fhitr, 1

L6 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

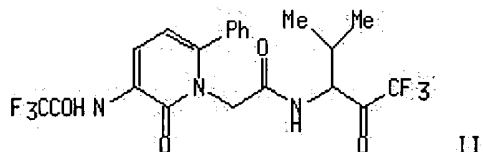
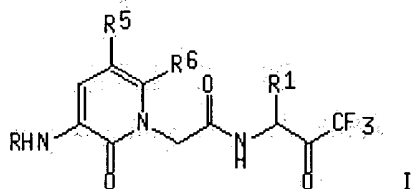
Full Text	Citing References
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ACCESSION NUMBER:	1993:408683 HCAPLUS
DOCUMENT NUMBER:	119:8683
TITLE:	Preparation of oxopyridylacetamides as human leukocyte elastase inhibitors
INVENTOR(S):	Bernstein, Peter Robert; Shaw, Andrew; Thomas, Royston Martin; Wolanin, Donald John; Warner, Peter
PATENT ASSIGNEE(S):	Imperial Chemical Industries PLC, UK
SOURCE:	Eur. Pat. Appl., 96 pp. CODEN: EPXXDW
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 509769	A2	19921021	EP 1992-303358	19920415
EP 509769	A3	19930901		
EP 509769	B1	19960911		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
NO 9201451	A	19921019	NO 1992-1451	19920410
CA 2065794	AA	19921019	CA 1992-2065794	19920410
AU 9214827	A1	19921022	AU 1992-14827	19920410
AU 660664	B2	19950706		
HU 66541	A2	19941228	HU 1992-1225	19920410
JP 06056785	A2	19940301	JP 1992-143140	19920418
PRIORITY APPLN. INFO.:			GB 1991-8357	19910418
			GB 1991-8358	19910418
			GB 1992-5392	19920312

OTHER SOURCE(S): MARPAT 119:8683
GI



AB Title compds. [I; R = H, CHO, F3CCO, acyl; R1 = C1-5 alkyl; R5, R6 = H, alkyl; or one of R5, R6 = H, Me; the other = BY; B = (substituted) (hetero)aryl; Y = bond, CH2, CH2CH2, trans-CH:CH], were prepd. Thus, title compd. II, prepd. by oxidn. of the corresponding hydroxyamide, inhibited human leukocyte elastase with Ki = 39 nM.

=> sel rn

E1 THROUGH E629 ASSIGNED

=> s 125:599235/dn

L7 0 125:599235/DN

=> s 125:599235/dn

L8 0 125:599235/DN

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

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FULL ESTIMATED COST

12.06

193.46

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FILE COVERS 1907 - 11 Apr 2004 VOL 140 ISS 16

FILE LAST UPDATED: 9 Apr 2004 (20040409/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 125:599235/dn

L9 0 125:599235/DN

=> s 125:599235/an

L10 0 125:599235/AN

=>